CBS NEWS - STS-3 LAUNCH (3-22-1982)

https://www.youtube.com/watch?v=ZpWsvoIpiQc (https://www.youtube.com/watch?v=ZpWsvoIpiQc)

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From Monday, March 22nd, 1982 CBS NEWS Coverage of the launch of STS-3, the 3rd Space Shuttle Launch.

STS-3 CREW:
Commander: Jack R. Lousma
Pilot: C. Gordon Fullerton

- Launched at 11:00:00 A.M E.T

00:00:00 (https://www.youtube.com/watch?v=ZpWsvoIpiQc)

minus t minus one minute 30 seconds and counting the external tank used to be white it's brown now the natural color of the insulation minus one the liquid hydrogen tank is at slight pressure by not painting it coming up on the one minute point in our countdown one minute prior to the liftoff of the third space shuttle mission t-minus one minute and counting the firing system for the sound suppression water system on the pad is armed by not painting it we're going to keep quiet for now [Applause] 345 we're 14 seconds away from switching command of the countdown from the ground computers to onboard computers the development flight instrumentation recorders are on t-minus 33 seconds and counting the gox bent arm is fully retracted and we're switching control of the countdown to the onboard computers t-minus 25 seconds the sequencer on the orbiter is now controlling the final seconds t minus 20 seconds t minus 15 14 13 12 10. we have main engineers [Music] houston now controlling mission patrol confirmed role maneuvers started [Music]

00:02:06 (https://www.youtube.com/watch?v=ZpWsvoIpiQc&t=126s)

nautical mile in altitude throttling engines down now up to 68 is programmed 38 seconds blackboard status looks good mission control 42 seconds columbia now three nautical miles in altitude 46 seconds coming up now to create a maximum aerodynamic pressure on the vehicle beautiful you can still see it with the naked eye from the kennedy space 55 seconds pass through max q still looking good throttling inches back to hundred percent give it a go at throttle up houston mark one minute ten seconds columbia now seven nautical miles in altitude four nautical miles downrange velocity now reading 2700 feet per second right here 460. we're on our way to the moon said jack lausma in just of course 25 seconds columbia now 11 nautical miles altitude eight nautical miles downrange roger we're looking that was jack laos we're reporting the free on loop flight one minute 40 seconds coming up on negative seats where altitude is too high for ejection seat use booster separation coming up in just a few seconds mark one minute 55 seconds columbia now 21 nautical miles in altitude 19 nautical miles down the rain two minutes two seconds standing by for solid rocket booster separation confirmation okay there's one all three two minutes 15 seconds confirmed solid rocket booster separation roger columbia we can convert just about make that up two minutes 23 seconds onboard guidance

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two minutes 23 seconds onboard guidance is converging is programmed columbia is now steering for a precise window in space for main engine cutoff two minutes 30 seconds standing by for two engine tower capability vehicle conversion 835 here roger and that's all technical talk that tells the astronauts where they could land in the event they run into trouble if one of the three main engines failed by capcom terry hart says that colombia now has a two engine auto landing capability at rotor naval air station spain colombia now 42 nautical miles in altitude 58 nautical miles downrange okay it looks like the waterfall is working real good roger roger we copy what jack he seeing there paul he said flakes worked which are probably particles of ice coming off the external tanks roger three minutes 30 seconds columbia now 51 nautical miles in altitude status check emission control by flight director tom holloway three minutes 40 seconds last month fullerton given a go to continue and they're still riding on those three main engines three minutes 45 seconds columbia now 53 nautical miles in altitude 104 nautical miles downrange really moving out now velocity now reading 7 800 feet per second and i show the number three uh apu oil tamp climate up there number three apu we'll take a look at it four minutes two seconds standing by for negative return houston stand by for negative return mark your negative return negative return that means they will not be coming back

[00:06:01 (https://www.youtube.com/watch?v=ZpWsvoIpiQc&t=361s)](https://www.youtube.com/watch?v=ZpWsvoIpiQc&t=361s)

they're shooting for a circular orbit 149.5 four minutes 40 seconds columbia now 61 nautical miles in altitude 170 nautical miles downrange a perfect launch so far just perfect one hour delay due to some minor technical problems earlier this morning 4 minutes 55 seconds columbia now 62 nautical miles in altitude five minutes two seconds standing by for president ghost and standby for prestamiko prestovico is not a process meet miko stands for main engine off and this means that they can keep moving toward that point in the flight plan which is about uh three minutes away with normal throttle thank you five minutes 22 seconds of press tomiko call by from capcom heart says should colombia lose but one engine press on keep flying forward columbia's engines have enough energy to achieve normal altitude and velocity at cutoff 5 minus 35 seconds columbia now 63 nautical miles altitude 255 nautical miles downrange velocity now reading twelve thousand three hundred feet per second still watching the attempts on apu three they're still climbing we'll keep you advised okay we are awesome the apu is the auxiliary power unit it's a misnomer it's a very important primary source of power for the launch of the landing of the shuttle capability houston you have single engine tower capability the next two critical developments the main engine cut off and the separation from the brown on your animation and up there headed for space external tank six minutes twenty seconds columbia now 63 nautical miles in altitude

[00:08:00 (https://www.youtube.com/watch?v=ZpWsvoIpiQc&t=480s)](https://www.youtube.com/watch?v=ZpWsvoIpiQc&t=480s)

63 nautical miles in altitude 340 nautical miles downrange velocity now reading 14 800 feet per second and this is the first of the three shuttles that uh wasn't postponed beyond its launch day that was commander jack lousa lousman reporting another message on apu-3 and that's the voice of john mcleish reporting from mission control in houston five seconds columbia now 62 nautical miles in altitude 398 nautical miles downrange columbia houston no action required at this time but be advised we're thinking of shutting down apu-3 after single engine pressed amiko is that a major problem it depends on what we decide the problem of the apu [Music] roger sounds good jack standing by now for a single engine presto miko call up by capcom terry hart jack lousma confusing about the flight 16 altitude 505 nautical miles downrange columbia houston single engine pressed amico single engine press that means i can go all the way on one engine right paul that's correct houston we recommend you secure apu-free over okay shut down apu-3 difficulty with one auxiliary power unit but there are three apus or auxiliary power units so the shutting down of one uh should not affect the flight uh in any way even if two engines go out i think with one apu gone that's going to give them some applause about continuing a full seven days up there again that's something we're going to have to watch yes folks are gathering their data up and then analyzing it getting ready to brief management even now i think mort they'd like to have that redundancy main engine slowly being throttled back now should be throttled at 68 at six seconds before

[00:10:00 (https://www.youtube.com/watch?v=ZpWsvoIpiQc&t=600s)](https://www.youtube.com/watch?v=ZpWsvoIpiQc&t=600s)

throttled at 68 at six seconds before managing cut off when the main engine does cut off 30 seconds they're standing by now for main engine cut off columbian oscillators 25.68 and 285 up roger sounds like a good one eight minutes is a good attitude we're standing by eight minutes later 46 seconds confirmed shutdown columbia again returned to space not yet returned to orbit standing by now for external tanks roger sapp confirm external tank separation the external tank a huge mass minus two seconds our columbia now performance we're moving below and beyond the external tank the external tank will tumble and hopefully to use that over work term it will fall in pieces in the indian ocean status checking mission control by flight director tom holloway for the first homes baron what two very critical points have been passed the main engine cutoff and separation from the external tank difficulty with one of the three auxiliary power units shut down on time and as the space shuttle columbia those for its third time in outer space morton dean the question it seems to me is how difficult will it be to complete the full week in space planned with that third auxiliary power unit shut down secured as you heard them say well i think that's uh something as paul said they're going to have to look at i think nasa still wants to have the redundant capability even though they could do it on two paul they would prefer to have the third yes mark the first thing we have to do is analyze the data that came back from the that apu while it was uh in the process of overheating analyze that and uh determine just what the state of health of that power unit is uh columbia mort i wonder we've had difficulty on on each of the three launches the auxiliary power units have

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launches the auxiliary power units have given us trouble if my memory serves correctly i wonder if paul has any idea why there's been so much difficulty with the apus no no i sure don't uh dan i think we'd have to go to the system experts for that well the first time they had a problem with an oil filter it wasn't an oil change and believed that they had corrected the trouble and they claim to have searched out the problem with the apu's and thought they had those problems licked i do have my facts correct there are three abu yes that's correct mark and in this case it probably is not the apu itself but the cooling system that is meant to keep it within its design operating temperatures now this animation as you can see the columbia is on our own now the external tank has been dropped headed for orbit the next critical time comes when the orbital maneuvering engines are asked to fire the first burn to set the elliptical orbit is what we're coming up to now waiting for that development and let's see if we can pick up the voice of mission control hugh harris nothing there at the moment as they await the first so-called ohms burn orbital maneuvering engine firing it would seem that when you hear a miko main engine cutoff dam that that would be it but uh the ohms engines their liquid-fueled rockets take over and if my memory serves me right paul there are shuttle control houston 12 minutes mission elapsed time prop reports cut off of on the first holmes burn we have loss of signal now with colombia through bermuda the next station to acquire will be madrid so the space shuttle is on its way paul yes sir and we'll have more cbs news coverage of

[00:14:00 (https://www.youtube.com/watch?v=ZpWsvoIpiQc&t=840s)](https://www.youtube.com/watch?v=ZpWsvoIpiQc&t=840s)

and we'll have more cbs news coverage of the third journey of the space shuttle columbia after the maneuvering engine firings has taken place everything looks fine aboard the columbia the space shuttle its third flight with the exception of one of the auxiliary power units keep in mind the three aboard has been quote secured which is to say shut down we'll have to find out more later in the day about how if at all that will affect the overall plans for the flight there was an early morning technical snag which caused a delay in launch but then all went well with this morning's launch of this third journey of the space shuttle columbia let's have another look at that launch on videotape we are going for main engine ignition 876. have main engineers looks good roger sounds good 26 seconds roll maneuver completed 30 seconds one nautical mile in altitude throttling engines down now up to 68 is programmed 38 seconds while board status looks good mission control 42 seconds columbia now three nautical miles altitude 46 seconds www dynamic pressure on the vehicle 55 seconds pass through max q still looking good throttling engines back to 100 percent give it a go at throttle up [Music]

[00:16:00 (https://www.youtube.com/watch?v=ZpWsvoIpiQc&t=960s)](https://www.youtube.com/watch?v=ZpWsvoIpiQc&t=960s)

[Music] columbia now seven nautical miles in altitude four nautical miles downrange velocity now reading 2700 feet per second colombia now 11 nautical miles in altitude eight nautical miles generated roger we're looking a picture-perfect launch from the kennedy space center in florida our thanks at the kennedy space center of course to morton dean and astronaut uh paul weitz and at the johnson space center in houston eric kingberg and astronaut ellison onizukum and a reminder that it's been less than a quarter of a century since the russians opened the space age by firing sputnik the shot hurled round the world it is a measure of how far we have come that one aim of today's launch of the space shuttle columbia is to demonstrate that man journeys into space are no more than routine and after that one hour delay today's flight got off routinely magnificently we'll keep you informed throughout the day if there are any other major developments we hope you'll join us tonight on the cbs evening news for a complete report on the first day of columbia's third journey into space for cbs news dan rather in new york good morning

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